

## Claims

1. A multilayer dose in the melt state (1) having an axis of symmetry for the realization of multilayer objects by compression molding, comprising a first synthetic resin (2) and at least one thin layer of functional resin (3) imprisoned at least largely in said resin (2), characterized in that a part of its surface (5) is concave.
2. The dose as claimed in claim 1, comprising an orifice, said concave surface (5) being constituted by a part at least of the inner surface formed by the orifice.
3. The dose as claimed in claim 2 in which the orifice forms a passage through the dose.
4. The dose as claimed in claim 3, in which the orifice forms a cavity which is open on one face of the dose (1).
5. The dose (1) as claimed in any one of the preceding claims, characterized in that the thin functional layer (3) itself forms a multilayer structure comprising a layer of barrier resin imprisoned between two layers of adhesive resin.
6. A multilayer object obtained from a multilayer dose in the melt state (1) as claimed in any one of claims 1 to 5, characterized in that it contains at least one portion in which the thin functional layer (3) forms a fold.
7. The multilayer object as claimed in the preceding claim, having an axis of symmetry, characterized in that the thin functional layer (3) forms a body of revolution centered about the axis of symmetry.

8. The multilayer object as claimed in claim 7, characterized in that said body of revolution is open.

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9. The multilayer object as claimed in the preceding claim, characterized in that said body of revolution contains an opening centered on the axis of symmetry.

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10. The multilayer object as claimed in any one of claims 6 to 9, characterized in that it contains an orifice forming a passage through the dose.

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11. The multilayer object as claimed in any one of claims 6 to 9, characterized in that it contains no orifice.

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12. The multilayer object as claimed in claim 7, characterized in that said body of revolution is closed.

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13. A production process for a multilayer dose in the melt state (1) as claimed in any one of claims 1 to 5, characterized in that the resins constituting the dose (1) are extruded simultaneously and coaxially, initially in a rectilinear direction, and in that the direction of extrusion is then modified in such a way as to form said concave surface (5).

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14. A device for producing a multilayer dose in the melt state (1) as claimed in any one of claims 1 to 5 and using the process as claimed in claim 13, characterized in that it comprises a passage (8) for the linear, simultaneous and coaxial flow of the resins constituting the dose (1) and means (9) for modifying the direction of extrusion in such a way

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as to form said concave surface (5), said means (9)  
being mounted so as to slide inside the passage (8).